TABLE 2 - 01/12/12
SAMPLE ANALYTICAL REQUIREMENTS SUMMARY
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

Analytical parameter and Method	Matrix	Sample Preservation	Holding Time (Days)	Sample Container(s)			
				Qty	Vol (ml)	Bottle Type	Comments
EPA R2 Lab							
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking water	Ice, 4°C	2	1	500	HDPE	
EPA R3 Lab	0						
Anions: Chloride, Bromide, Fluoride, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water	Ice, 6°C	28	1	500	HDPE	
Glycols incl. 2-Butoxyethanol (Modified 8321)	drinking water	Ice, 6°C	7	1	40	Glass Vial	No Headspace
Metals Dissolved: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Sb, Se, Sn, Sr,Ti, Tl, U, V, Zn (200.7/200.8/245.1)	Filtered drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	500	HDPE	
Metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Sb, Se, Sn, Sr,Ti, Tl, U, V, Zn (200.7/200.8/245.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	500	HDPE	
Semi-Volatiles (TCL plus TICs) (OLC03.2)	drinking water	Ice, 6°C	7	2	1000	Amber Glass	Teflon Lined Lids
Solids, Total Dissolved (TDS) (SM 2540C)	drinking water	Ice, 6°C	7	1	500	HDPE	
Solids, Total Suspended (TSS) (SM 2540D)	drinking water	Ice, 6°C	7	1	500	HDPE	
Volatiles + Acrylonitrile (TCL + TICs) (OLC03.2)	drinking water	2 drops of 1:1 HCl, pH<2, Ice, 6°C	14	4	40	Glass Vial	Teflon Lined Lids No Headspace
Wet Chemistry: - Phosphorus, Total (365.4); - Nitrate/Nitrite (353.2); - Nitrogen; Total (353.2)	drinking water	pH<2, H2SO4, and cool with ice, 4°C	28	1	500	HDPE	
EPA R9 Lab	0						
Dissolved Gases, Methane, Ethane, Ethene, Propane, Butane (RSK-175, or equiv - EPA R9 SOP 325)	drinking water	pH<2 with HCl and cool with ice, 4°C	7	2	40	Glass Vial	
DRO (8015M, or equiv-EPA R9 SOP 385)	drinking water	Ice, 4°C	7 (1)	2	1000	Amber Glass	Teflon Lined Lids
GRO (8015M, or equiv-EPA R9 SOP 380)	drinking water	pH<2 with HCl and cool with ice, 4°C	14	2	40	Glass Vial	Teflon Lined Lids No Headspace
NAREL	0						
Alpha Spec (Th-228, Th-230, Th-232) (DOE HASL 300)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Alpha Spec (U-234, U-235, U-236, U-238) (DOE HASL 300)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Gamma Spec Bi-212, Bi-214, K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238 (901.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Gross Alpha/Beta (900.0)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Ra-226 (903.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Ra-228 (904.0)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
TBD	0						
PAH SIM **(8270C)**	drinking water	Ice, 6°C	7	2	1000	Amber Glass	Teflon Lined Lids
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	drinking water	Ice, 6°C	7	2	40	Glass Vial	Teflon Lined Lids No Headspace
Ethylene Glycol (8015M)	drinking water	Ice, 4°C	7	2	40	Glass Vial	Teflon Lined Lids No Headspace
Oil & Grease (HEM) (1664A)	drinking water	pH<2, H2SO4, and cool with ice, 4°C	28	1	1000	WM Amber Glass	Teflon Lined Lids
Tier IV	0						
Bacteria (fecal & total coliform, HPC) (SM 9222B; SM 9215B w/R2A medium)	drinking water	Ice, 4°C (.008% Na2S2O3 if residual Cl- present)	0.25	1	125	Pre- Sterilized Poly	
Tier IV	0						
Isotech - d13C and d2H of methane; - Complete compositional analysis of headspace gas; - Stable isotopes of water (O,H)	drinking water	Ice, 4°C, biocide pill in sample container	180	1	1000	HDPE	

KEY:

°C = degrees Celsius
CLP = Contract Lab Program
CLP = Contract Lab Program
D2H = delta of deuterium
H2SO4 = Sulfuric Acid
HDPE = High density polyethylene
HN03 = Nitric Acid
HPC = Heterotrophic Plate Count
ml = milliliter
Na2S2O3 = Sodium Thiosulfate
pH = potential Hydrogen
QL = Quantitation Limit
Sr = Strontium
TCL = Target Compound List
TICs = Tentatively Identified Compounds
ug/L = micrograms per liter
(1) Days to extract